NUMBER 49.—ELECTRICAL TERMS AND UNITS.

There are two ways in which the lamps, cells of a battery and units in announced on Overland and Willysn electrical system can be connected; namely, in series and in parallel. When
the units, lamps, &c., are so connected that the current must pass through
them one after the other, they are said to be in series. Fig. 2 shows how lamps

announcements of Willys-Overland ofannouncements of Willys-Overland ofmone after the other, they are said to be in series. Fig. 2 shows how lamps connected in series, while Fig. 3 shows a set of dry cells so connected. In this case, it is not pass through one after the other, as in the series, they are said to send to pass through one after the other, as in the series, they are said to connected in parallel. Fig. 4 shows lamps so connected. In this case, it light were to go out, it would not affect the other.

When an electric current passes through a wire, lamp filament or other ice, it will cause the wire, &c., to become hot. As the greater the amount purpose the hotter the wire becomes, it often happens that parts become so

When an electric current passes through a wire, lamp filament or other levice, it will cause the wire, &c., to become hot. As the greater the amount of current the hotter the wire becomes, it often happens that parts become so let as to "burn out." To prevent this, a fuse, which will burn out at an amberage lower than the device it is supposed to protect, is placed in series with the device. By burning out it breaks or opens the circuit before harm can be lone. It is a safety device, or sort of safety-valve.



A cutout might be termed an automatic switch whereby the circuit is opened to avoid harm or waste of current. Thus it might open the circuit to prevent the battery from being discharged under certain conditions, or it might open it when the voltage or amperage becomes so high as to burn out certain units.

A regulator is a device for automatically regulating the voltage or amperage. Thus the amperage for charging the attery should be about 8 or 10, and the regulator will maintain this. Both the regulator and cutout are

The expression positive or negative is much used in talking of electrical circuits and is important. The current is said to flow from one terminal of the battery, or from one brush of a generator and to flow to the other terminal or brush. The terminal from which the current flows is called the positive terminal and that to which it flows the negative. When a battery is connected great care must be taken to have the positive or negative terminal correctly connected and not reversed. Thus in most cars, the positive terminal of the battery is connected to the metal of the car or is "grounded." Should the negative be grounded when the positive should be, the battery will be quickly discharged. The "plus" sign is used to mark the positive terminal and the "minus" sign to mark the negative terminal.

When talking of electrical circuits, the expressions "high tension" and

When talking of electrical circuits, the expressions "high tension" and "high voltage" mean the same thins. I told you that voltage meant electrical pressure. Tension is just the opposite of pressure, so it would seem that the above statement is contradictory. But you can regard the current as being forced or pressed out from one terminal and drawn or pulled in from the circuit at the other terminal. The former case would mean pressure, and the latter tension. As you can look at it from either way, when I say high voltage and high tension mean the same thing in this case it is correct.

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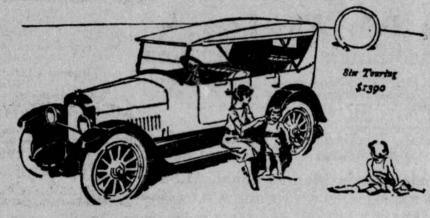
Motor Notes

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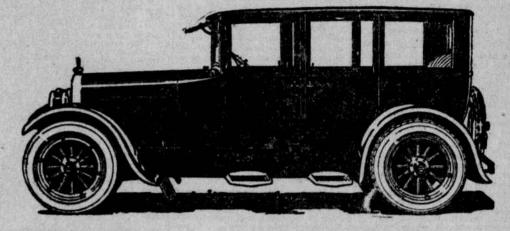
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